

Furthermore, relying on case studies of Hampton Roads area and a simple network with six popular ITS options, they identified the following three issues –

- Overestimation of ITS option benefits when the benefits are estimated from travel time savings,
- Incorrect interpolation on travel time reliability rates for non-integer V/C ratios, and
- Insensitive cost savings for combined ITS options

3.2.2.2 Network Data Preparation

IDAS uses the data imported from other traffic demand models. IDAS requires specific formats for the input data. After generating the original data file using data export feature in TransCAD, additional editing work is required and can be carried out using Microsoft Excel. The input data are –

- Analysis network – extracted from a travel demand model if possible
 - Node coordinates
 - Link characteristics
 - Turn prohibitor (optional)
 - Origin-destination (O-D) number of trips
 - Zone-to-zone travel times (optional for in-vehicle auto trips)
- User modifications to default parameters, impacts, and costs – No changes were made for the preliminary case study.
 - Speed-flow curves
 - Rates (related to emissions, fuel, and safety)
 - Impacts of ITS options
 - Dollar values of benefits
 - Unit costs of equipments